

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584459

Luminaire Tested: **HC835D010-HM82555930-81NDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555930-81NDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3806.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.27
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

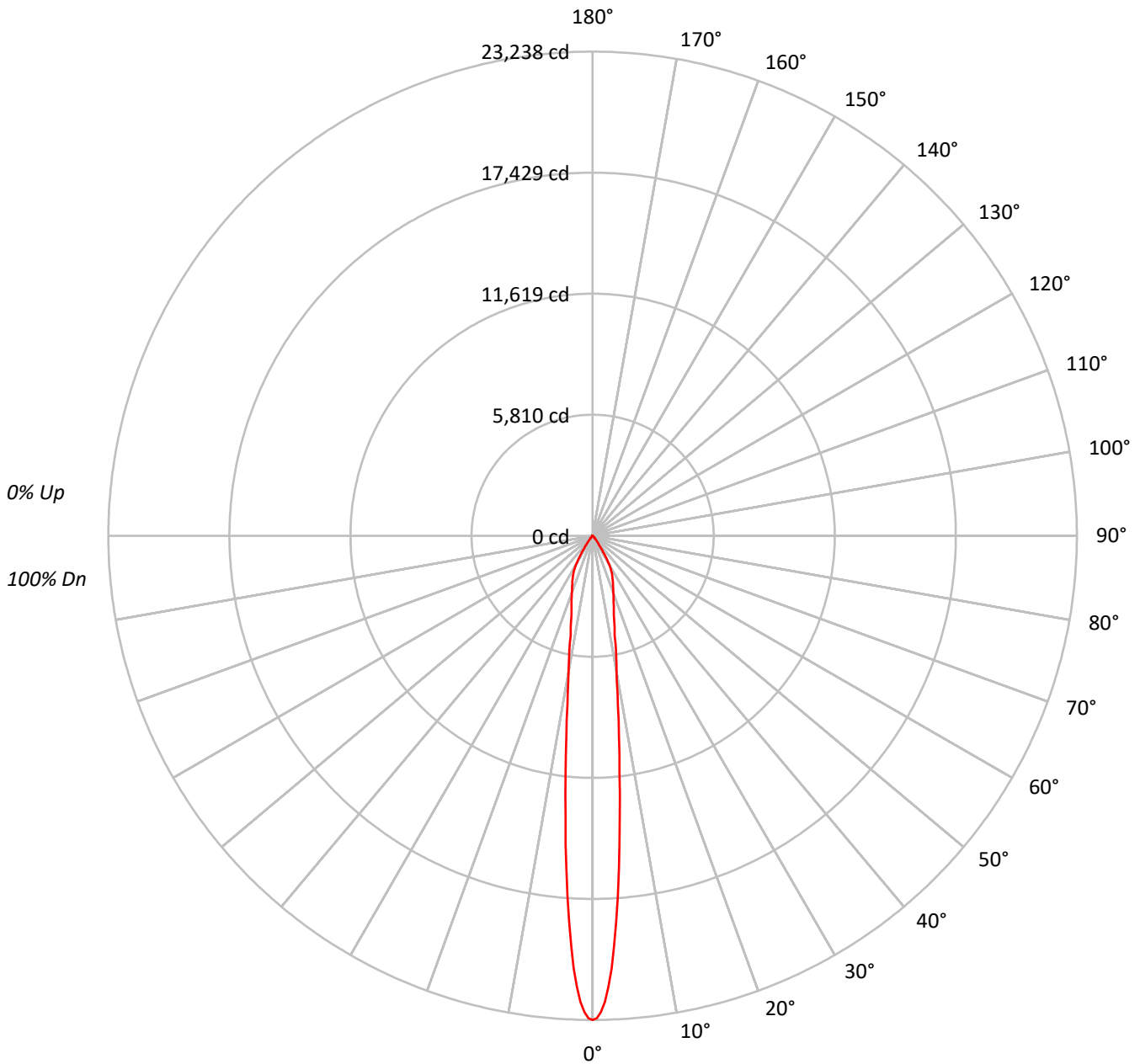
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	67	66	66	66	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	716562
5°	459619
10°	207627
15°	125277
20°	95466
25°	77092
30°	56494
35°	20456
40°	7632
45°	3463
50°	1108
55°	280
60°	154
65°	182
70°	0
75°	0
80°	444
85°	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.5	29.7
10°-20°	1150.3	30.2
20°-30°	1029.7	27.0
30°-40°	414.8	10.9
40°-50°	68.0	1.8
50°-60°	6.2	0.2
60°-70°	2.2	0.1
70°-80°	1.7	0.0
80°-90°	2.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3312.4	87.0
0°-40°	3727.2	97.9
0°-60°	3801.4	99.9
0°-90°	3807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23238	
5°	14848	###
15°	3924	1150
25°	2266	1030
35°	543	415
45°	79	68
55°	5	6
65°	2	2
75°	0	2
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23237.6
0.5°	23165.8
1°	22866.0
1.5°	22384.0
2°	21653.6
2.5°	20789.7
3°	19708.1
3.5°	18521.3
4°	17347.4
4.5°	16032.6
5°	14848.4
5.5°	13559.1
6°	12513.3
6.5°	11424.0
7°	10567.9
7.5°	9663.1
8°	8935.2
8.5°	8204.6
9°	7656.2
9.5°	7051.2
10°	6630.9
12.5°	4890.5
15°	3924.2
17.5°	3352.6
20°	2909.2
22.5°	2555.5
25°	2265.8
27.5°	1976.2
30°	1586.6
32.5°	1020.1
35°	543.4
37.5°	299.9
40°	189.6
42.5°	125.6
45°	79.4
47.5°	48.8
50°	23.1
52.5°	7.7
55°	5.2
57.5°	2.5
60°	2.5
62.5°	2.5
65°	2.5



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	2.5
80°	2.5
82.5°	2.5
85°	2.5
87.5°	2.5
90°	0.0



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— 0°-180°







67.5°		2.5
70°		0.0



(END OF REPORT)